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M-2

Docket No.: YOR920030231US2  
20140/00339US1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
David B. Mitzi et al.

Application No.: 10/801,766

Confirmation No.: 6935

Filed: March 16, 2004

Art Unit: 2814

For: HYDRAZINE-FREE SOLUTION  
DEPOSITION OF CHALCOGENIDE FILMS

Examiner: Long Pham

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed prior to a first office action on the merits as far as known to the undersigned.

A copy of each reference on the PTO/SB/08 is attached except for the cited US Patent.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent,

publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0185, under Order No. 20140-00339-US.

Dated: 8-16-09

Respectfully submitted,

By 

Burton A. Amernick

Registration No.: 24,852

CONNOLLY BOVE LODGE & HUTZ LLP

1990 M Street, N.W., Suite 800

Washington, DC 20036-3425

(202) 331-7111

(202) 293-6229 (Fax)

Attorney for Applicant



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/801,766
				Filing Date	March 16, 2004
				First Named Inventor	David B Mitzi
				Art Unit	2814
				Examiner Name	Long Pham
Sheet	1	of	1	Attorney Docket Number	20140-00339-US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA	US-6,379,585-B1	04-30-2002	Vecht et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	"The Use of Soluble Metal-Polyselenide Complexes as Precursors to Binary and Ternary Solid Metal Selenides" by Dhingra et al., Mat. Res. Soc. Symp. Proc. Vol. 180, 1990, pages 825-830	
	CB	"Successive ionic layer adsorption and reaction (SILAR) method for the deposition of large area (~10cm <sup>2</sup> ) tin disulfide (SnS <sub>2</sub> ) thin films" Sankapal et al., Materials Research Bulletin 35 (2000) pages 2027-2035	
	CC	"Polycrystalline CdSe Films for Thin Film Transistors" Van Calster et al., Journal of Crystal Growth 86 (1988) pages 924-928	
	CD	"Preparation of Thin-Film Transistors with Chemical Bath Deposited CdSe and CdS Thin Films" Gan et al., IEEE Transactions on Electron Devices, Vol. 49, No. 1, January 2002, pages 15-18	
	CE	"Spin-coated amorphous chalcogenide films" Chern et al., J. Appl. Phys. 53 (10), October 1982, pages 6979-6982	
	CF	"Spin-Coating of MoS <sub>2</sub> Thin Films" Pütz et al., Institut für Neue Materialien - INM, Department of Coating Technology, Im Stadtwald, Geb. 43, D-66123 Saarbrücken, Germany, 6 pages	
	CG	"Solution processed CdS thin film transistors" Schön et al., Thin Solid Films 385 (2001) pages 271-274	
	CH	"A Novel Method for the Preparation of Inorganic Sulfides and Selenides" I. Binary Materials and Group II-VI Phosphors, Davies et al., Journal of the Electrochemical Society, 147 (2), pages 765-771 (2000)	
	CI	"All-Inorganic Field Effect Transistors Fabricated by Printing" Ridley et al., October 22, 1999, Vol. 286, Science, pages 746-749	
	CJ	"A Method for the Clean Syntheses of Sulfides/Selenides" II. Ternary Sulfides/Selenides, Marsh et al., Journal of the Electrochemical Society, 148 (7) pages D89-D93 (2001)	
	CK	"Electrical Characterization of 2H-SnS <sub>2</sub> Single Crystals Synthesized by the Low Temperature Chemical Vapor Transport Method" Shibata et al., J. Phys. Chem. Solids Vol. 52, No. 3, pages 551-553, 1991	

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Examiner Signature	Date Considered
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